



National Aeronautics and  
Space Administration

Jet Propulsion Laboratory  
California Institute of Technology  
Pasadena, California



# Surface Water and Ocean Topography (SWOT) Mission

<http://swot.jpl.nasa.gov>

## SWOT Science Team Meeting

### Algorithm Definition Team (ADT)- Science Team Interaction

Ernesto Rodríguez & Stéphane  
Calmant

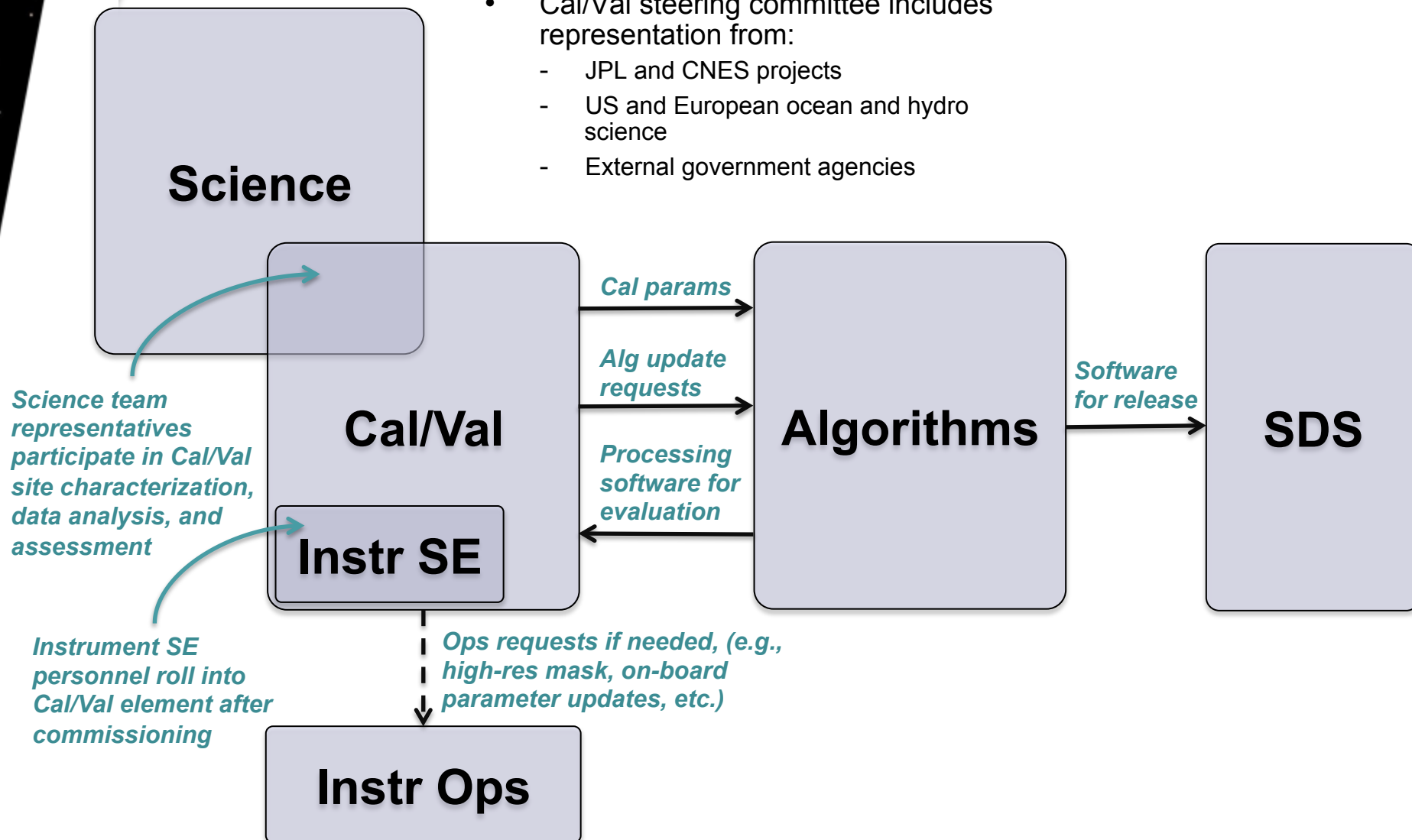
CalVal Steering Group Leads

February 15, 2016



# Team Organization in Cal/Val Phase

- Cal/Val steering committee includes representation from:
  - JPL and CNES projects
  - US and European ocean and hydro science
  - External government agencies





# CalVal Steering Group



- Steering group leads:
  - Ernesto Rodríguez (JPL)
  - Stéphane Calmant (IRD)
- Project leads:
  - Curtis Chen (JPL)
  - Nicolas Picot (CNES)
- Hydrology Representatives
  - Tamlin Pavelsky (UNC)
  - Jean-François Crétaux (LEGOS/CNES)
  - Pascal Bonnefond (OCA)
  - Paul Bates (U Bristol)
- Ocean Representatives
  - Yi Chao (RSS)
  - Francesco d'Ovidio (LOCEAN-IPSL, CNRS),
  - Pascal Bonnefond (OCA)
- Government Agency Representatives
  - Justin (Toby) Minear (USGS)
  - Al Pietroniro (Environment Canada)



# Oceanography Phase C Hot Topics



- Synoptic validation of the SWOT error spectrum
- What is the right mix of airborne and in situ data?
- How do we validate the validators?
- What pre-launch activities will be required?
- Do we have the right set of CalVal sites?
- How do we integrate efforts across different sites?
- What is the need for high resolution data over the ocean during the 1-day phase?
  - Validating wave effects
  - Validating land, rain, and ice flags
- Defining what data needs to be processed and how quickly (and how often) during the CalVal phase
- Coordination with altimeter CalVal platforms
- Important CalVal meeting tomorrow!
  - A white paper complimenting the draft CalVal plan will be produced
- Following meeting (TBC), Paris, in coordination with the OSTST and meetings
  - Review of white paper progress





# Hydrology Hot Topics



- Definition of Tier 1 site instrumentation and procedures
- Continued outreach towards international community
  - Next South America meeting: Late November, Concepción, Chile
  - Internal discussions during this meeting for contacts in South Asia (Faissal Hossein, Stefan Calmant), Africa (Stefan Calmant, Brian Arbic), Japan (Dai Yamazaki)
- Definition of pre-launch activities
  - Site characterization requirements and field experiments
- Cementing relationship with operational agencies (USGS, EnviroCanada, IRD, NOAA?, etc)
- Establishing a framework for collaboration between different CalVal teams
- Defining what data needs to be downloaded during the 1-day repeat phase
- Defining what data needs to be processed and how quickly (and how often) during the CalVal phase